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SOVIET CONTROL-MEASURING INSTRUMENTS

Compiled by Engr R. Ye. Gel'man

The following types of control-measuring instruments, listed on Sheet 55 of the Handbook of Power Plant Engineering, are manufactured by the "Tochelek-tropribor" Plant of the Ministry of the Electrical Industry. The instruments are designed to operate at average temperatures from + 10° to + 35° C. Where dimensions are given, these refer to the width and height of the face, and the depth of the instrument, respectively.

AST-A -- Astatic ammeter. Portable, electromagnetic, accuracy Class 0.5 [percent]. Measuring limits: 0.5 - la, 1 - 2a, 2.5 - 5a, 5 - l0a, (dc and 50 cycle ac current). Dimensions 190 x 230 x 115 mm.

AST-MA -- Astatic milliammeter. As for AST-A except for measuring limits of 25 - 50ma, 50 -- 100ma, 250 -- 500ma, (dc and 50 cycle ac current).

ELA -- Ammeter, Class 0.2. Portable, electrodynamic, shielded. Measuring limits: 2.5 - 5a, 5 - 10a, (dc or ac current). Dimensions $360 \times 350 \times 150$ mm.

EIMA -- Milliammeter, Class 0.2, As for ELA except for measuring limits of 25 — 50ma, 50 — 100ma, 250 — 500ma, 500 — 1,000ma (dc or ac current).

VChA -- High-frequency ammeter. Fixed, electromagnetic, astatic. Connected through current transformers with a rated secondary current of 5a. Rated frequency 1,000, 2,500 or 8,000 cycles (each instrument is set for a single rated frequency). Dimensions 185 x 185 x 135 mm.

AST-V -- Astatic voltmeter. Portable, electromagnetic, accuracy Class 0.5. Measuring limits: 150 - 300 v (dc and 50 cycle ac current). Dimensions 190 x 230 x 115 mm.

AVN -- Astatic voltmeter. As for AST-V except for measuring limits of 1.5 3-7.5 v.

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AMV-1 -- Multirange voltmeter. Portable, astatic, electromagnetic, accuracy class 0.5. Measuring limits: 7.5-15-30-60 v (dc or 50 cycle ac current). Dimensions 190 x 230 x 115 mm.

AMV-II -- Multirange voltmeter. As for AMV-1 except for measuring limits of 75 -150 -- 300 $-600\,$ v.

ELV -- Voltmeter, Class O.2. Portable, electrodynamic, shielded. Measuring limits: 75, 150, 300 v (dc and ac current). Dimensions 360 x 350 x 150 mm.

AST-D -- Astatic wattmeter. Portable, electrodynamic, accuracy Class 0.5. Measuring limits: current -- 5a; voltage -- 150 v (dc or ac current). Dimensions 190 x 230 x 715 mm.

EDV -- Wattmeter, Class O.2. Portable, electrodynamic, shielded. Measuring limits: current - 0.5/la, 2.5/5a, 5/10a; voltage --75, 150, 300 v (dc or ac current). Dimensions 360 x 350 x 510 mm.

ETV -- High-frequency wattmeter. Panel fitted, electrodynamic, 5a and 120 v. Connected to current and voltage transformers. Frequency 1,000, 2,500, 8,000 cycles. Dimensions 185 x 185 x 135 mm.

VG -- Vibrating galvanometer. Magnetoelectric with moving magnet, shielded. Current -- 50 cycle ac. Dimensions 160 x 310 x 135 mm.

ELF -- Laboratory phase meter. Single phase, four quadrant, electro-dynamic, accuracy Class 1.5. Ratings: current -- 5 and 10a, voltages -- 100 and 220 v, frequencies -- 1,000, 2,500, 8,000 cycles. Dimensions 235 x 300 x 170 mm.

ETF -- High-frequency phase meter. Panel fitted, single phase, electro-dynamic. Ratings: current -- 5a, voltage -- 100 v. Measuring limits for power factor 0.5 -- 1 -- 0.5. Frequency 1,000, 2,500, 8,000 cycles. Dimensions 185 x 185 x 135.

FU-2 -- Phase indicator. Portable, induction. Ratings: inter-phase voltage 50 - 500 v; frequency limits 40 - 60 cycles. Used for determining phase sequence in three phase networks. Dimensions 70 x 100 x 36 mm.

UTT-1 -- Universal current transformer. Transformation ratio 100-2,000/5a. Used for various measurements and for testing current transformers at 50 cycles. Dimensions $275 \times 140 \times 347$ mm.

UTT-5 -- Universal current transformer. Transformation ratio 15-600/5a. Used for various measurements and for testing current transformers at 50 cycles. Dimensions $125 \times 130 \times 60$ mm.

UTT-6 -- As for UTT-5 but transformers ratio is 100-2,000/5a. Dimensions 225 x 130 x 275 mm.

ATT-6 -- Apparatus for testing current transformers. Accuracy Classes 0.2, 0.5, 1, 3. Dimensions $360 \times 242 \times 170$ mm.

UTN-1 -- Universal voltage transformer. Single phase, accuracy class 0.2. Ratings: primary voltage $380/\sqrt{3}$, 380, 500 v; secondary voltage 100/3, $100\sqrt{3}$, 100 v; capacity 15, 10,5 va. Used for measuring and testing commercial voltage transformers at 50 cycles. Dimensions 305 x 164 x 302 mm.

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